

Claims

1-45. (Cancelled)

46. (Currently amended) Method for assisting the landing and/or takeoff of a powered flying object, said method comprising providing a relative to a landing and/or takeoff area stationary-generated fluid current, in order to introduce energy into the flying object, wherein the fluid current provided has a certain specific density, and detecting information on the flying object, and enriching the provided fluid current in response to the detected information by at least one substance of higher specific density to increase its deceleration effect and/or its acceleration effect, respectively.

47. (Previously presented) Method according to Claim 46, wherein the direction of the fluid current is adjusted depending on the situation.

48. (Previously presented) Method according to Claim 46, wherein the value of at least one further physical parameter of the fluid current is adjusted depending on the situation.

49. (Previously presented) Method according to Claim 48, wherein the at least one physical parameter comprises at least one of the following parameters:

temperature of the fluid current, velocity of the fluid current, homogeneity of the fluid current and laminarity rate of the fluid current.

50. (Previously presented) Method according to Claim 46, wherein a fire-extinguishing agent is introduced into the fluid current provided.

51. (Previously presented) Method according to Claim 46, wherein the fluid current provided is a wind generated artificially from the existing atmosphere.

52. (Previously presented) Method according to Claim 46, wherein to assist the landing of a flying object firstly a fluid current is provided, which is capable of decelerating the flying object, and then a fluid current is provided, which is capable of lowering the flying object from a hovering position onto the landing area.

53. (Previously presented) Method according to Claim 46, wherein to assist the takeoff of a flying object firstly a fluid current is provided, which is capable of lifting the flying object from the takeoff area to a hovering position and then a fluid current is provided, which is capable of accelerating the flying object in a desired direction.

54. (Currently amended) Apparatus for assisting the landing and/or takeoff of a powered flying object, comprising:

at least one, related to a landing and/or a takeoff area, stationary fluid current generator, which is designed to provide a fluid current in order to introduce energy into a flying object; ~~and~~

a substance supply unit designed to enrich the provided fluid current by at least one additional substance to increase its deceleration effect and/or its acceleration effect, respectively, the additional substance having a higher specific density than the provided fluid current; and

a control device configured to detect information on the flying object and configured to cause the substance supply unit to enrich the provided fluid current by the at least one additional substance in response to the detected information.

55. (Previously presented) Apparatus according to Claim 54, wherein the fluid current provided by the fluid current generator can be adjusted.

56. (Previously presented) Apparatus according to Claim 54, wherein the fluid current generator is designed so as to vary the value of at least one further physical parameter of the fluid current provided.

57. (Previously presented) Apparatus according to Claim 54, wherein a heating element for heating up the fluid current is provided.

58. (Previously presented) Apparatus according to Claim 54, wherein a cooling element for cooling down the fluid current is provided.

59. (Previously presented) Apparatus according to Claim 54, wherein a fire-extinguishing agent supply unit for introducing a fire-extinguishing agent into the fluid current is provided.

60. (Previously presented) Apparatus according to Claim 54, wherein the at least one fluid current generator comprises at least one blower.

61. (Previously presented) Apparatus according to Claim 59, wherein the at least one blower comprises at least one turbofan.

62. (Previously presented) Apparatus according to Claim 54, wherein the at least one fluid current generator is designed so as to provide as fluid current a wind artificially generated from the existing atmosphere.

63. (Previously presented) Apparatus according to Claim 54, further comprising a control device for determining the optimum value of at least one

parameter of the fluid current being provided by the at least one fluid current generator and for adjusting this at least one parameter value.

64. (Previously presented) Apparatus according to Claim 56, wherein the at least one parameter comprises at least one of the following parameters: direction of the fluid current, temperature of the fluid current, velocity of the fluid current, homogeneity of the fluid current and laminarity rate of the fluid current.

65. (New) Method according to Claim 46, wherein the method further comprising determining based on the detected information whether enriching the provided fluid current is necessary in order to achieve a required deceleration effect or acceleration effect, wherein enriching the provided fluid current in response to the detected information by at least one substance of higher specific density comprises enriching the provided fluid current by at least one substance of higher specific density if determined to be necessary.

66. (New) Method according to Claim 46, wherein the information on the flying object comprises information on at least one of:

- a speed of the flying object;
- a height of the flying object;
- a weight of the flying object; and

a shape of the flying object.

67. (New) Apparatus according to Claim 54, wherein the control device is further configured to determine based on the detected information whether enriching the provided fluid current is necessary in order to achieve a required deceleration effect or acceleration effect, and wherein the control device is configured to cause the substance supply unit to enrich the provided fluid current by the at least one additional substance if determined to be necessary.

68. (New) Apparatus according to Claim 54, wherein the information on the flying object comprises information on at least one of:

- a speed of the flying object;
- a height of the flying object;
- a weight of the flying object; and
- a shape of the flying object.